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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-GNR-W.No.14-2016-17 **Date:** 25.04.2016

Aggregate Impact Value

MORTH TABLE-400-13
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	**Sri. G.N. Ramesh,** Contractor, Bangalore.
Name of the Work	Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.
Reference	EE/DD/WO/84/2015-16 Dated: 24.03.2016
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	25.04.2016

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	376	374	375	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	291	288	291	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.61	22.99	22.40	**22.67**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Job No.: CECTC-GNR-W.No.14-2016-17 **Date:** 04.05.2016

Aggregate Impact Value

MORTH TABLE-400-13
IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	**Sri. G.N. Ramesh,** Contractor, Bangalore.
Name of the Work	Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.
Reference	EE/DD/WO/84/2015-16 Dated: 24.03.2016
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	04.05.2016

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	374	376	378	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	291	291	291	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.19	22.61	23.02	**22.60**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CECTC-GNR-W.No.14-2016-17 Date : 04.05.2016

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-13

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor : **Sri. G.N. Ramesh,** Contractor, Bangalore.
Name of Work : Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.
Reference : EE/DD/WO/84/2015-16 Dated: 24.03.2016
Date of Testing : 04.05.2016
Material : Wet Mix Macadam
Sample Location : WMM Mix Plant

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	21.45	Nill
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-GNR-W.No.14-2016-17 Date : 04.05.2016

GRADATION FOR WMM
MORTH TABLE-400-13

Client : **Executive Engineer**, Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri. G.N. Ramesh,** Contractor, Bangalore.

Name of Work : Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.

Reference : EE/DD/WO/84/2015-16 Dated: 24.03.2016

Date of Testing : 04.05.2016

Material : Wet Mix Macadam

Sample Location : WMM Mix Plant Oven Dry Wt (gm): **13500**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	425	425	3.1	96.9	95-100
22.4	3645	4070	30.1	69.9	60-80
11.2	3268	7338	54.4	45.6	40-60
4.75	2147	9485	70.3	29.7	25-40
2.36	1896	11381	84.3	15.7	15-30
0.600	955	12336	91.4	8.6	8-22
0.075	869	13205	97.8	2.2	0-5

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Job No.: CECTC-GNR-W.No.14-2016-17 Date : 16.05.2016

GRADATION FOR WMM
MORTH TABLE-400-13

Client : **Executive Engineer**, Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri. G.N. Ramesh,** Contractor, Bangalore.

Name of Work : Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.

Reference : EE/DD/WO/84/2015-16 Dated: 24.03.2016

Date of Testing : 16.05.2016

Material : Wet Mix Macadam

Sample Location : WMM Mix Plant Oven Dry Wt (gm): **13575**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	455	455	3.4	96.6	95-100
22.4	3484	3939	29.0	71.0	60-80
11.2	3295	7234	53.3	46.7	40-60
4.75	2219	9453	69.6	30.4	25-40
2.36	1927	11380	83.8	16.2	15-30
0.600	1025	12405	91.4	8.6	8-22
0.075	925	13330	98.2	1.8	0-5

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Job No.: CECTC-GNR-W.No.14-2016-17 16.05.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. G.N. Ramesh,** Contractor, Bangalore.
Name of Work	Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.
Reference	EE/DD/WO/84/2015-16 Dated: 24.03.2016
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	16.05.2016

Result : Flakiness Index = **11.73%**

Elongation Index = **13.95%**

Result : Combined Flakiness & Elongation index 25.68%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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Job No.: CECTC-GNR-W.No.14-2016-17

08.06.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. G.N. Ramesh,** Contractor, Bangalore.
Name of Work	Filling of pot holes in Main and Cross Roads of Bagalagunte Ward No.14 , BBMP, Bangalore.
Reference	EE/DD/WO/84/2015-16 Dated: 24.03.2016
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	08.06.2016

Result : Flakiness Index = **11.86%**

Elongation Index = **13.49%**

Result : Combined Flakiness & Elongation index 25.35%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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